

Please revise the claims as follows:

--1. (currently amended) A method of monitoring whether an animal that has received a transplanted kidney has is experiencing a kidney disease involving smooth muscle cell abnormalities, the method comprising:

analyzing a sample taken from the animal for the degree of presence of a marker protein selected from the group consisting of:

(a) phosphorylated protein proteins having a sequence of ~~at least 95 percent homology to phosphorylated SEQ. ID NO. 1 in~~ a form comprising in which phosphorylated tyrosine; at least a ~~tyrosine of SEQ. ID NO. 1 has been phosphorylated;~~

(b) phosphorylated protein proteins having a sequence of at ~~least 95 percent homology to phosphorylated SEQ. ID NO. 2 in a~~ form comprising in which phosphorylated tyrosine; at least a ~~tyrosine of SEQ. ID NO. 2 has been phosphorylated;~~

(c) proteins protein having a sequence of at least 95 ~~percent homology to SEQ. ID NO. 1; and~~

(d) proteins protein having a sequence of at least 95 ~~percent homology to SEQ. ID NO. 2;~~

wherein the disease is kidney transplant rejection; and

wherein the analyzing comprises:

contacting the sample or materials derived therefrom ~~with a means of perceiving the marker protein; and~~

either:

(i) comparing the amount of marker protein so ~~perceived with the amount of marker protein in a known standard~~ to diagnose whether the animal has such a disease; or

(ii) attempting to visualize the marker protein to diagnose whether the animal has such a disease.

2. (previously presented) The method of claim 1, wherein the animal is a primate.

3. (canceled)

4. (currently amended) The method of claim 2 claim 3, wherein the method further comprises examining protein fragments solubilized from a homogenate of the sample for the presence of a fragment of the selected marker protein which is between 20 kDa and 80 kDa in size.

5. (currently amended) The method of claim 1, wherein the marker protein is SEQ. ID NO. 1 in a form in which at least a tyrosine of SEQ. ID NO. 1 has been phosphorylated.

6. (currently amended) A method of monitoring whether a transplant selected from the group consisting of transplanted kidney organs, transplanted tissues, and transplanted cells is being rejected by an animal recipient of the transplant, comprising:

analyzing a sample taken from the recipient for the degree of presence of a marker protein selected from the group consisting of:

(a) phosphorylated protein proteins having a sequence of at least 95 percent homology to phosphorylated SEQ. ID NO. 1 in a form comprising in which phosphorylated tyrosine at least a tyrosine of SEQ. ID NO. 1 has been phosphorylated;

(b) phosphorylated protein proteins having a sequence of at least 95 percent homology to phosphorylated SEQ. ID NO. 2 in a form comprising in which phosphorylated tyrosine; at least a tyrosine of SEQ. ID NO. 2 has been phosphorylated;

(c) proteins protein having a sequence of at least 95 percent homology to SEQ. ID NO. 1; and

(d) proteins protein having a sequence of at least 95 percent homology to SEQ. ID NO. 2;

wherein the analyzing comprises:

contacting the sample or materials derived therefrom with a means of perceiving the marker protein; and

either:

(i) comparing the amount of marker protein so perceived with the amount of marker protein in a known standard to diagnose whether the animal has such a disease; or

(ii) attempting to visualize the marker protein to diagnose whether the animal has such a disease.

7. (currently amended) The method of claim 6, wherein the method comprises examining protein fragments solubilized from a homogenate of the sample for the presence of a fragment of the selected marker protein which is between 20 kDa and 80 kDa in size.

8. (original) The method of claim 6, wherein the animal is a primate.

9. (original) The method of claim 8, wherein the animal is a human.

10. (canceled)

11. (canceled)

12. (original) The method of claim 6, wherein the sample is a portion of a transplanted kidney.

13. (currently amended) The method of claim 6, wherein the marker protein is SEQ. ID NO. 1 in a form in which at least a

tyrosine of SEQ. ID NO. 1 has been phosphorylated.

14. (withdrawn) A phosphorylated protein fragment in a form isolated from other proteins having a size greater than 100 kDa, wherein the protein is between 20 and 80 kDa in size and is selected from the group consisting of a fragment of phosphorylated SEQ. ID NO. 1 in a form in which at least a tyrosine of SEQ. ID NO. 1 has been phosphorylated and a fragment of phosphorylated SEQ. ID NO. 2 in a form in which at least a tyrosine of SEQ. ID NO. 2 has been phosphorylated.

15. (withdrawn) An antibody capable of binding to at least two of the claim 1 proteins, at least one of which is not phosphorylated, and at least one of which is phosphorylated.

16. (withdrawn) A kit for monitoring whether an animal is experiencing a disease and/or adverse condition involving smooth muscle cell abnormalities, the kit comprising a claim 15 antibody.--